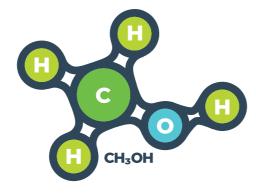




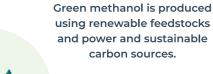
What is green methanol?

# What is green methanol?

Green methanol ( $CH_3OH$ ), a key derivative of green hydrogen, is a clear liquid and the simplest alcohol, with the methanol molecule containing four hydrogen atoms and one carbon atom.



#### How is green methanol made?





## **Renewable Power** from Tasmanian Hydro, Wind and Solar farms.





Sustainable Water Supply

Electrolysis
Spliting water into
hydrogen and oxygen.



#### Biomass (CO<sub>2</sub>)

Sourced exclusively from sustainable certified plantations.

#### Gasification

Converts biomass to hydrogen and other products, without combustion.

The proposed Bell Bay Powerfuels will be the largest scale green methanol production facility in the Asia Pacific region, with a projected output of

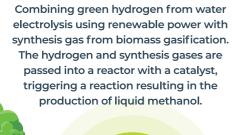
## **300,000 tonnes** of green methanol per year.

The operation at Bell Bay Powerfuels aims to provide direct and indirect employment for **300+ workers** for at least 30 years.



The operation has virtually **zero GHG emissions,** water vapour emissions, or effluent discharge. The production process is odourless and the product

is biodegradable and easy to handle as a clear liquid.



Australia currently imports over 100,000 tonnes of methanol per annum.



The National Hydrogen Strategy

Hydrogen Strategy
has been pivotal in propelling
Australia's ambitions to source
alternatives to the reliance
on traditional fossil fuels.

Who uses green methanol?

Green methanol has two main applications as:

sustainable chemical feedstock

2. renewable liquid fuel



Global Shipping and Maritime Industries are aiming for a

80% reduction of emissions by 2040.



### carbon neutral liquid fuel,

green methanol can be be used as a diesel and gasoline replacement, accelerating the decarbonisation of



Australia is ever reliant on the maritime industry with

# 80% of goods transported by sea.

Green methanol as a chemical feedstock is in fact carbon negative as carbon is captured from the atmosphere and stored in the chemical product produced.



Methonal derivatives are key in production of our

everyday



#### Medical Equipment

- · Gloves
- Masks
- · Medical gowns
- Hood cap
- · Apron
- Pharmaceutical drugs
  Disinfectants
- al drugs · Body Panels · MDF/MDI Door Panels
  - Safety Glass Laminate

Distributer Caps, Fuses

· Polyester Carpet & Fabric

Tire Core Adhesives

Automotive

· Clean Fuels

· Light Lens

Paints

Manufacturing

 Polyurethane Dashboard Foam
 Acetyl Thermoplastics: Gears, Pumps, Mouldings, Compounds,

#### Daily Objects

- · Mattress Foam
- · Polyester Carpet
- · PET Plastic Bottles
- Decorative Laminates
- · Clothing
- · Fibreglass Insulation Binder
- Silicone Sealant
- SolventsDisinfectants

Disinfectants

renewable fuel uptake opportunities, ie ports, rail, ferries, trucks etc.

Tasmania is poised to be the sustainable fuel gateway

Bell Bay, will provide local

As part of a Green
Hydrogen Energy Hub at

With customers like

who have 24 large

(16,000 TEU) ordered with methanol dual fuel

container ships

capability, delivering Mærsk a 70% emission: reduction by 2030.

Mærsk



Demand for green methanol derivatives is set to grow to

400 million tonnes by 2050.



Renewable Energy Transformed



